



Class	Trim	Fig. No.
125	Bronze	559
	Iron	1259
	T316 SS	559P

Design Specifications

Item	Applicable Specification
Wall thickness	ASME B16.1
Pressure - temperature ratings	MSS SP-71
General valve design	MSS SP-71 Type I
End to End dimensions	ASME B16.10
Flange design	ASME B16.1
Materials	ASTM

STANDARD MATERIALS

FIGURE NUMBER	559	1259	559P
CLASS	125	125	125
PART	MATERIALS		
Body	A126-B		3% Nickel
Cap	A126-B		3% Nickel
Disc	A126-B or A536		3% Nickel (1)
Disc Seat Ring	B62	-	A351 Gr. CF8M (1)
Seat Ring	B62	A536	A351 Gr. CF8M
Gasket	Non-Asbestos		
Carrier	A536		3% Nickel
Carrier Pin	B16	A276-410	A276-304
Disc Nut	A307-A		T304 SS
Split Pin	T304 SS	T410 SS	T304 SS
Washer	Steel		T304 SS
Body / Cap Stud	A307-A		
Body / Cap Nut	A563-A		
Side Plug	B16	A276-410	A276-304

DESIGN FEATURES:

- **Seat faces** lapped for smooth finish and superior sealing.
- **Swivel disc** for improved seat alignment and longer life.
- **Each** valve is shell and seat pressure tested per industry standard MSS SP-71.
- **Check** valve are suitable for service in horizontal line with cap vertical or in a vertical line with flow upward.

(1) For sizes 2" and 3", the disc is solid A351 Gr. CF8M for figure 559P.

SWING CHECK VALVE DIMENSIONS CLASS 125

SIZE	FIG 559, 1259, & 559P				
	A	B	D	WT	C _v
in				lb	
mm				kg	
2	8.00	4.7	2.00	25	45
50	203	118	50	11	
2½	8.50	5.4	2.50	36	75
65	216	136	64	16	
3	9.50	5.8	3.00	46	110
80	241	147	75	21	
4	11.50	6.7	3.94	81	210
100	292	169	100	37	
5	13.00	7.8	4.94	115	345
125	330	198	125	52	
6	14.00	8.5	5.94	150	530
150	356	215	150	68	
8	19.50	10.4	7.94	253	1010
200	495	264	200	115	
10	24.50	11.9	9.88	442	1580
250	622	303	250	200	
12	27.50	13.5	12.00	638	2460
300	699	343	305	289	
14	31.00	15.5	14.00	792	3340
350	787	394	356	359	
16	36.00	17.6	16.00	1020	4360
400	914	448	406	463	
18	36.00	19.3	18.00	1304	5980
450	914	490	457	591	
20	40.00	22.3	20.00	1771	7400
500	1016	565	508	803	
24	48.00	24.9	24.00	2630	10600
600	1219	632	610	1193	

